

ABSTRACT

An apparatus, method and system to enable dynamic replication of Web servers across a wide area in response to access patterns by Web clients as well as in response to customer requests. The method for dynamically replicating one or more parent nodes on a network in response to a user request by a policy manager. The policy manager transmits the user request to an event module. The event module transmits the user request to a data consistency module, wherein the data consistency module maintains integrity of the data on the parent node. The event system communicates with a resource management module to ensure proper utilization of network resources, and transmits the routing request to a request routing module for appropriately balancing the network load. The request routing module is capable of providing optimal routing based on the network resources.